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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/625,957	07/24/2003	Sumit Talwalkar	MOTB:033US	1631	
75	10/31/2006		EXAM	INER	
David D. Bahler, Esq.			TSE, YOU	TSE, YOUNG TOI	
FULBRIGHT & JAWORSKI, L.L.P. Suite 2400			ART UNIT	PAPER NUMBER	
600 Congress Avenue Austin, TX 78701			2611	2611	
			DATE MAILED: 10/31/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	. Applicant(s)				
	10/625,957	TALWALKAR ET AL.				
Office Action Summary	Examiner	Art Unit				
	YOUNG T. TSE	2611				
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet v	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR I WHICHEVER IS LONGER, FROM THE MAIL! - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicat. If NO period for reply is specified above, the maximum statutory. Failure to reply within the set or extended period for reply will, be Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUN CFR 1.136(a). In no event, however, may a ion. period will apply and will expire SIX (6) MC y statute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. NBANDONED (35 U.S.C. § 133)				
Status						
1) Responsive to communication(s) filed on	24 July 2003.					
	This action is non-final.					
closed in accordance with the practice up	·	• •				
Disposition of Claims						
4)⊠ Claim(s) <u>1-28</u> is/are pending in the applic	ration	•				
4a) Of the above claim(s) is/are wi						
5) Claim(s) is/are allowed.	undrawn nom consideration.					
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 1-28 are subject to restriction as	ad/or alastian requirement					
Old Claim(s) 1-20 are subject to restriction at	id/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Ex	aminer.					
10) The drawing(s) filed on is/are: a)	☐ accepted or b)☐ objected to	by the Examiner.				
Applicant may not request that any objection	to the drawing(s) be held in abeya	ince. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the	correction is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by t	the Examiner. Note the attache	ed Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119	•					
12) Acknowledgment is made of a claim for fo	oreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority docu	iments have been received.					
2. Certified copies of the priority docu	iments have been received in	Application No				
3. Copies of the certified copies of the						
application from the International E	· · · · · · · · · · · · · · · · · · ·	· ·				
* See the attached detailed Office action for		t received.				
	-,					

3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

5) Notice of Informal Patent Application

6)	 Other:	

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DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species:

Figure 2 is a block diagram of a carrier suppression system, representing a first embodiment of the invention.

Figure 3 is a block diagram of the carrier suppression system, representing a second embodiment of the invention.

Figure 4 is a block diagram of the carrier suppression system, representing a third embodiment of the invention.

Figure 5 is a flowchart of a feedback DC calibration method, representing a first embodiment of the invention.

Figure 6 is a flowchart of an unrotated carrier suppression method, representing a second embodiment of the invention.

Figure 8 is a flowchart of a rotated carrier suppression method, representing a third embodiment of the invention.

Figure 10 is a flowchart of a hybrid carrier suppression method, representing a fourth embodiment of the invention.

The species are independent or distinct because claims 1-10 are directly related to the unrotated or rotated carrier suppression method of Figure 6 or Figure 8 for applying a set of four correction signal pairs to the quadrature modulator; detecting a

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first set of four output signals and identifying an optimum correction signal pair from among the set of four correction signal pairs; and using the final correction signal pairs to suppress a carrier in the quadrature modulator. However, claims 11-28 are directly related to a method of Figure 5 for performing a search method or a calibration method to determine a pair of receiver path correction signals; performing a search method to determine a pair of transmitter path correction signals; and using the pairs of receiver path and transmitter path correction signals to suppress a carrier signal in the quadrature modulator and the apparatus of Figure 2 for suppressing a carrier in the quadrature modulator.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

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2. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOUNG T. TSE whose telephone number is (571) 272-3051. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

OUNG T. TSE Primary Examiner Art Unit 2611